## State of California AIR RESOURCES BOARD

## **EXECUTIVE ORDER A-31-30**

Relating to Certification of New Heavy-Duty Motor Vehicle Engines HINO MOTORS, LTD.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Hino Motors, Ltd., 1995 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

<u>Fuel Type</u>: Diesel

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control  Systems and Special Features
SHM3.8C7DARW	3.8	(234)	Engine Control Module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The exhaust certification emission standards for this engine family in grams per brake horsepower-hour are as follows:

Total	Carbon	Nitrogen	<u>Particulates</u>	
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>		
1.3	15.5	5.0	0.10	

The exhaust certification emission values for this engine family in grams per brake horsepower-hour are as follows:

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
SHM3.8C7DARW	0.6	2.2	4.8	0.09

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this

R. B. Summerfield

Assistant Division Chief Mobile Source Division

day of March, 1995.

E.O.# A-31-30

01.00.00

## 199<u>5</u> AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer	LITAYO MACATON	DO 1 mm				
Displacement:	3 930	RS, LTD.	Eng	ine Family	SHM3.8C7	)ARW
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		150 NP @ :	2 800	RPM Engin	a Canfia	
-5	mhi∈2210tt X	Comn	rection with	Class Dlum		
idei Type(5):	Ded (Cated	_ riex-ruei	Dual-Fuel	Diesel	x Minn	MOE
	CITE LIVE	ULPG	Other (speci	fv1		
Diesel Cert Fi	del. 12 CCK	2282	0 CFR 86 1313	_90	40 CED OC	1010 01
titural A Turchit	ned Service C	iass: LHD	x MHD -	нно	Urb	an Bus
EXHAUST ECS (	inci. MFI, IC	· UNU ): "IT" (")	MC TOOM			
				tions per SAE	J1930 SEP	91)
Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate  @Rated HP  mm / stroke	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part.No.	PTOX / Catalytic Converter
		(1bs/hr)		<del> </del>		Part No.
W04C-TM	150 @ 2,800	91.0 (55.5)	Fuel Pump: Zexel Corp.	ECM: Injection	-	-
			Mech T/M; 696 (22000-8391)	pump con-	com-	,
			Auto T/M; 697 (22000-8401)	89560-267		,
			Injector: Zexel Corp.			
			Nozzle & holder set; 4M	· '		
ļ	[		(23600-2671)		.	
			Nozzle holde	r;		
			(23620-2321)	ļ		
			Nozzle assy			
			(23640-2251)			
			);Hino In	ventory No.		
Date Issued:						
Revisions:		.1	1	1		